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TITLE : FORMATION OF COATING FILM OF ELECTRICALLY CONDUCTIVE METAL OXIDE

ABSTRACT : PURPOSE: To form a coating film of an electrically conductive metal oxide having high adhesive strength on an insulator substrate by a low temp. process at a low cost.

CONSTITUTION: Complexes of metals forming one or more kinds among ZnO, SnO₂, TiO₂, and In₂O₃ are formed in an aq. alkali soln., an insulator substrate is brought into contact with the soln. contg. the complexes and a coating film of electrically conductive metal oxides is formed on the substrate at 1-2μm/hr rate by thermally decomposing the complexes. The objective coating film having satisfactory adhesion is formed. In order to reduce the resistance value of the coating film, the substrate with the formed coating film may be heat-treated or the coating film may be doped with Al or B by adding Al or B ions to the soln.

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